

Attorney Docket No. 8196-16

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Jacob Strom et al.

Serial No.: 10/720,042

Filed: November 21, 2003

For: GRAPHICS PROCESSING APPARATUS, METHODS AND COMPUTER PROGRAM
PRODUCTS USING MINIMUM-DEPTH OCCLUSION CULLING AND ZIG-ZAG
TRAVERSAL

Group Art Unit: 2671

Examiner: To Be Assigned

Confirmation No.: 2544

Date: April 26, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

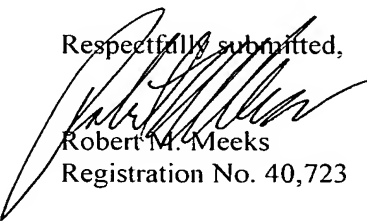
INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Sir:

Attached is a list of documents on Form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003.

It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP. No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,



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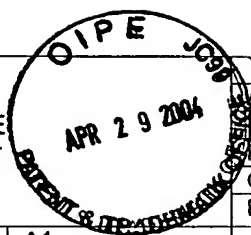
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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 26, 2004.



Candi L. Riggs

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| Substitute form 1449A/PTO | | Complete if Known | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/720,042 | | |
| | | Filing Date | November 21, 2003 | | |
| | | First Named Inventor | Jacob Strom | | |
| | | Group Art Unit | 2671 | | |
| | | Examiner Name | | | |
| Sheet | A1 | of | A1 | Attorney Docket Number | 8196-16 |



| U.S. PATENTS AND PATENT PUBLICATIONS | | | | | |
|--------------------------------------|----------|----------------------|-------------------------|--|--|
| Examiner Initials* | Cite No. | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| Examiner Initials* | Cite No. | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | T |
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| OTHER NON PATENT LITERATURE DOCUMENTS | | | | |
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| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T | |
| | 1 | Akenine-Moller et al., 2002, <i>Real-Time Rendering</i> , AK Peters Ltd., pp. 705-707 | | |
| | 2 | Cox et al., 1993, Pixel Merging for Object-Parallel Rendering: a Distributed Snooping Algorithm, In <i>Symposium on Parallel Rendering</i> , ACM SIGGRAPH, pp. 49-56 | | |
| | 3 | Fromm et al., 1997, The Energy Efficiency of IRAM Architectures, In <i>24th Annual International Symposium on Computer Architecture</i> , ACM/IEEE, pp. 327-337 | | |
| | 4 | Greene et al., 1993, Hierarchical Z-Buffer Visibility, In <i>Proceedings of ACM SIGGRAPH 93</i> , ACM Press/ACM SIGGRAPH, New York, J. Kajiya, Ed., Computer Graphics Proceedings, Annual Conference Series, ACM, pp. 231-238 | | |
| | 5 | Hakura et al., 1997, The Design and Analysis of a Cache Architecture for Texture Mapping, In <i>24th International Symposium of Computer Architecture</i> , ACM/IEEE, pp. 108-120 | | |
| | 6 | Igehy et al., 1998, Prefetching in a Texture Cache Architecture, In <i>Workshop on Graphics Hardware</i> , ACM SIGGRAPH, Eurographics. | | |
| | 7 | Kelleher, Brian, 1998, PixelVision Architecture. Tech. rep., Digital Systems Research Center, no. 1998-013, October | | |
| | 8 | Klein et al., 2001, Non-Photorealistic Virtual Environments, In <i>Proceedings of SIGGRAPH 2000</i> , ACM Press/ACM SIGGRAPH, New York, E. Fiume, Ed., Computer Graphics Proceedings, Annual Conference Series, ACM, pp. 527-534 | | |
| | 9 | Lathrop et al, 1990, Accurate Rendering by Subpixel Addressing, <i>IEEE Computer Graphics and Applications</i> 10, 5 (September), pp. 45-53 | | |
| | 10 | McCabe et al., 1998, DirectX 6 Texture Map Compression, <i>Game Developer Magazine</i> 5, 8 (August) pp. 42-46 | | |
| | 11 | McCormack et al., 2000, Tiled Polygon Traversal Using Half-Plane Edge Functions, In <i>Workshop on Graphics Hardware</i> , ACM SIGGRAPH/Eurographics, pp. 15-21 | | |
| | 12 | McCormack et al., 1999, Implementing Neon: A 256-Bit Graphics Accelerator, <i>IEEE Micro</i> 19, 2 (March/April), pp. 58-69 | | |
| | 13 | Morein, S., 2000, ATI Radeon HyperZ Technology, In <i>Workshop on Graphics Hardware, Hot3D Proceedings</i> , ACM SIGGRAPH/Eurographics | | |
| | 14 | Nvidia, 2001, HRAA: High Resolution Antialiasing Through Multisampling. Tech rep., pp. 1-8 | | |
| | 15 | Pineda, J., 1988, A Parallel Algorithm for Polygon Rasterization, In <i>Computer Graphics (Proceedings of ACM SIGGRAPH 88)</i> , ACM, pp. 17-20 | | |
| | 16 | Shirley, P., 1990, <i>Physically Based Lighting Calculations for Computer Graphics</i> , PhD Thesis, University of Illinois at Urbana Champaign, pp. 1-175 | | |
| | 17 | Williams, L., 1983, Pyramidal Parametrics, In <i>Computer Graphics (Proceedings of ACM SIGGRAPH 83)</i> , ACM, pp. 1-11 | | |
| | 18 | Woo et al., 2002, A 120-mW 3-D Rendering Engine With a 6-Mb Embedded DRAM and 3.2 GB/s Runtime Reconfigurable Bus for PDA Chip, <i>IEEE Journal of Solid- State Circuits</i> 37, 19 (October), pp. 1352-1355. | | |

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|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.